Manitoba

Health
Health and Healthy Living
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Dear Colleague,

Please find attached the Summary of Communicable Diseases for the month of October 2008. This information includes the number of reported cases of notifiable communicable diseases for which individuals in Manitoba tested positive* on laboratory samples and/or clinical reports, during the month of October 2008.

Communicable Diseases (non STI-BBPs)

In total, there were **530** new infections occurring across 23 communicable diseases** (excluding sexually transmitted infections and HIV) in October 2008. The observed numbers of cases were within the statistically expected range for all of the reported communicable diseases with the exception of the following diseases:

- Methicillin-resistant Staphylococcus aureus (MRSA) – 273 positive lab isolates on individual cases reported, 12 to 252 expected per month
- Salmonellosis – 24 cases reported, 2 to 23 cases expected per month
- Shigellosis – 5 cases reported, 0 to 4 cases expected per month

The expected number of cases and accompanying range is based on the statistical number of cases during September, October and November 2003-2008.

MRSA positive results within Manitoba include both individuals who are symptomatic of infection and colonized individuals, who have no symptoms and are diagnosed during admission screening activities at facilities. If facilities increase their screening activities, it would result in a rise in colonized MRSA cases. Together MRSA and *Clostridium difficile* accounted for 67% of all non-STI/HIV related communicable diseases reported to Manitoba Health and Healthy Living during October. *C. difficile* cases tended to be concentrated in the 60+ age group, while cases of MRSA were reported in all age groups.

Sexually Transmitted Infections & Blood-Borne Pathogens

There were **719** cases of sexually transmitted infections (chlamydia, gonorrhoea, and syphilis) in October:

- 604 cases of chlamydia (Ct)
- 55 cases of gonorrhoea (GC)
- 50 co-infections of Ct and GC and
- 10 cases of syphilis

Forty-five percent of all Ct cases in the province were reported among females of age group 15-24 years. 51% all Ct cases were reported for individuals living in the Winnipeg Health Region and an additional 14% were from the Burntwood Health Region.

In October, 20 individuals tested positive for Hepatitis C virus (HCV) in Manitoba. Five Manitobans tested positive for HIV in October. A new case of HIV infection is defined as a positive test with a unique code

that has not been previously associated with a positive test result in Manitoba. Positive tests included in this month's statistics include both nominal and non-nominal testing results. If HIV case investigation forms identify previous positive results with the appropriate nominal or non-nominal information, duplicate counting can be reduced. The HIV cases reported in October were all males ranging in age between 20 and 49 years of age.

***Note**: Data for the monthly summary are aggregated based on the earliest of: symptom onset date, specimen collection date, or report date. For the majority of cases, the date used will be the specimen collection date.

****Note**: Monthly reports reflect variance in the year-to-date counts due to late case confirmation, where cases are assigned to the previous appropriate month.

*****Note**: The following communicable diseases are reportable to the Director of Communicable Disease Control for surveillance purposes and are <u>not referred out</u> for public health follow-up:

- Ascariasis (ICD9: 127.0)
- Leishmaniasis – unspecified (ICD9: 085.9)
- Methicillin or vancomycin resistant *Staphylococcus aureus* (MRSA/VRSA) (ICD9 B95.6)
- Schistosomiasis (ICD9: 120)
- *Streptococcus pneumoniae* – other site (ICD9: 041.2)
- *Strongyloides* (ICD9: 127.2)
- Vancomycin resistant enterococci (VRE) (ICD9 B96.8)

The following communicable diseases are reportable to the Director of Communicable Disease Control for surveillance purposes and are referred out to public health <u>for information only</u>:

- Viral Meningitis – CoxSackie
- Viral Meningitis – Echo
- Viral Meningitis – Entero
- Viral Meningitis – H. simplex (Epstein Barr, CSF only)

All other diseases are referred out for further public health <u>follow-up and investigation</u>

Please feel free to contact me should you have any questions about this report.
Thank you.
Sincerely,

Myrna Dyck BN, MSc
Epidemiologist, Communicable Diseases
Public Health Surveillance System
Manitoba Health and Healthy Living

SUMMARY OF COMMUNICABLE DISEASE FOR October 2008

ICD9	DISEASE/INFECTION	MONTHLY TOTAL				YEAR-TO-DATE	
		2007	2008	Expected*	Ex. Range**	2007	2008
006.9	AMEBIASIS	3	2	2	0-4	37	27
022	ANTHRAX				***		
127.0	ASCARIASIS			0	0-1	1	
005.8	B. CEREUS			0	0-1	2	1
320.0	BAC. MENINGITIS - HAEM			0	0-0		
320.1	BAC. MENINGITIS - PNEUM			0	0-1	3	2
320.7	BAC.MENINGITIS-LISTERIA				***		
038.0	BETA STREP SEPTICEMIA	16	15		***	88	119
116.0	BLASTOMYCOSIS	3	6		***	16	16
005.1	BOTULISM				***		
023	BRUCELLOSIS			0	0-0	1	
005.2	C. PERFRINGENS	1		1	0-6	6	
008.43	CAMPYLOBACTER	27	25	21	8-34	202	202
558.2	CLOSTRIDIUM DIFFICILE	72	83		***	840	733
046.1	CREUTZFELD-JACOB DISEASE				***		1
007.8	CRYPTOSPORIDIOSIS	7	11	4	0-11	64	66
061.0	DENGUE FEVER			0	0-0	1	1
065.4	DENGUE HEMORRHAGIC FEVER			0	0-0		
V02.4	DIPH.CARRIERS	1		0	0-1	1	5
032	DIPHTHERIA CASES			0	0-1		1
123.4	DIPHYLLOBOTHRIUM SPP	1		1	0-3	16	5
008.0	E. COLI-VEROTOXIGENIC	4	3	6	0-20	43	31
054.3	ENCEPHALITIS			0	0-0		
005.9	FOOD POISONING OTHER			0	0-0		
007.1	GIARDIA LAMBLIA	6	7	10	1-19	88	110
041.5	H.I.B.-NON MTGS	1		0	0-1	1	2
041.59	HAEM. INFLUENZAE (non-B)	2	3		***	9	12
480.8	HANTA VIRUS			0	0-0	1	
283.11	HEMOLYTIC UREMIC SYNDROME			0	0-1	1	
070.1	HEPATITIS A		2	1	0-3	7	12
070.3	HEPATITIS B	1		0	0-1	5	3
070.51	HEPATITIS C	34	20	35	27-43	287	291
487.1A	INFLUENZA A				***	70	78
487.1B	INFLUENZA B				***	1	44
482.83	LEGIONELLA	1		0	0-1	1	
085.9	LEISHMANIASIS			0	0-0		
030.9	LEPROSY			0	0-0		
027.0	LISTERIA MONOCYTOGENES	1		0	0-1	1	5
088.81	LYME DISEASE			0	0-0	6	4
084	MALARIA	4	1	1	0-4	15	10
055.9	MEASLES			0	0-0		
036.0	MENINGOCOCCAL CSF			0	0-1	3	1
036.82	MENINGOCOCCAL ARTHROPATHY				***		
036.2	MENINGOCOCCEMIA BLOOD			0	0-0	1	2
B95.6	MRSA	215	273	132	12-252	1765	2085
072.9	MUMPS			0	0-1	7	1
036.89	N.MENINGITIDIS OTHER			0	0-1		3
728.86	NECROTIZING FASCIITIS	2	3	1	0-3	13	15
729.1	NECROTIZING MYOSITIS				***		
323.9	OTHER ENCEPHALITIS			0	0-1	1	
033.1	PARAPERTUSSIS				***		
033.0	PERTUSSIS			4	0-11	15	15
038.2	PNEUM. SEPTICEMIA	13	13	7	0-16	82	99
073.9	PSITTACOSIS			0	0-0		

* Mean of 15 month totals, from previous, comparable and subsequent months for the past 5 years

** Mean +/- 2 standard deviations of mean

*** Data collected for less than 5 years.

		MONTHLY TOTAL				YEAR-TO-DATE	
ICD9	DISEASE/INFECTION	2007	2008	Expected*	Ex. Range**	2007	2008
083.0	Q FEVER			0	0-1		1
056.9	RUBELLA			0	0-0	2	
771.0	RUBELLA CONGENTIAL			0	0-0		
041.2	S.PNEUM.OTHER	1		1	0-3	3	2
003.0	SALMONELLA	6	24	13	3-23	183	211
120	SCHISTOSOMIASIS			0	0-1	1	
004	SHIGELLOSIS		5	1	0-4	14	25
050.9	SMALLPOX				***		
005.0	STAPH FOOD POISON			0	0-0		
785.5	STAPH TOXIC SHOCK				***	2	2
481.9	STREP PNEUMONIA - PR	1		0	0-1	1	1
041.1	STREP PYOGENES - OTHER STER	1	8		***	29	35
711.0	STREP.PNEUM.ARTHRITIS			0	0-0		
580.0	STREPT GLOMERULONEPHRITIS			0	0-0		
040.89	STREPT TOXIC SHOCK			0	0-0		
481	STREPTOCOCCUS PNEUMONIAE			0	0-0	3	2
127.2	STRONGYLOIDES	1		0	0-1	16	5
037	TETANUS			0	0-1		
130.9	TOXOPLASMOSIS	1		0	0-1	1	
124	TRICHINOSIS			0	0-0		
086	TRYPANOSOMA CRUZI			0	0-1	2	
013	TUBERCULOSIS - NON-RESP.	1	2	2	1-4	14	18
011	TUBERCULOSIS - RESP.	3	11	7	1-15	64	93
010	TUBERCULOSIS-PRIM.		1	2	1-3	3	6
021.9	TULAREMIA			0	0-1	1	1
002.0	TYPHOID			0	0-0		1
081.9	TYPHUS			0	0-0		
B96.8	VANCOMYCIN R. ENTEROCOCCI	4	10		***	43	66
005.4	VIBRIO PARAHAEMOLYTICUS				***		
070.59	VIRAL HEP. OTHER				***		
B95.7	VRSA			0	0-0		
062.1	W. EQUINE ENCEPHALITIS			0	0-0		
198	WNV NEUROLOGICAL SYNDROME				***	72	2
008.44	YERSINIA ENTEROCOLITICA	1	2	1	0-3	9	13
		435	**530**			**4164**	**4486**

* Mean of 15 month totals, from previous, comparable and subsequent months for the past 5 years

** Mean +/- 2 standard deviations of mean

*** Data collected for less than 5 years.

SUMMARY OF COMMUNICABLE DISEASE BY AGE AND GENDER FOR October 2008

		<1		1 - 4		5 - 9		10 - 14		15 - 19		20 - 24		25 - 29		30 - 39		40 - 49		50 - 59		60 - 69		70 - 79		80 +		Missing	Total
ICD9	Disease Name	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	age/gendr	
006.9	AMEBIASIS											1				1													2
038.0	BETA STREP SEPTICEMIA	3	1												1		1		3		1		1		1	2	1		15
116.0	BLASTOMYCOSIS						1		1				2			1									1				6
008.43	CAMPYLOBACTER			2	3		3					1	2	1	1	2		1	2	1	2	1			1	2			25
558.2	CLOSTRIDIUM DIFFICILE											2				3	1	5	3	2	5	5	3	9	18	17	10		83
007.8	CRYPTOSPORIDIOSIS			1	4				1	1						2	1				1								11
008.0	E. COLI 0157										2													1					3
007.1	GIARDIA LAMBLIA			1	1	1	1					1			1										1				7
041.59	HAEM. INFLUENZAE (non-B)			1													1		1										3
070.1	HEPATITIS A											1			1														2
070.51	HEPATITIS C													1	1	3	2		5	2	4		1	1					20
084	MALARIA				1																								1
B95.6	MRSA	6	6	8	13	11	5	6	6	11	8	10		7	10	11	13	15	20	10	22	9	8	10	12	26	10		273
728.86	NECROTIZING FASCIITIS																	1	1		1								3
038.2	PNEUM. SEPTICEMIA	1	1														5	1		1	2	1		1					13
003.0	SALMONELLA					1	1		3	1	1			1	2	1		1	3	1		3	1	1		2	1		24
004	SHIGELLOSIS					1	1				1				1			1											5
041.1	STREP PYOGENES - OTHER ST											1					2		3		1						1		8
013	TUBERCULOSIS - NON-RESP																		1				1						2
010	TUBERCULOSIS - PRIM			1																									1
011	TUBERCULOSIS - RESP									1			1					3	1		2	1		2					11
B96.8	VANCOMYCIN RES. ENTER.											1						1		2		1	1	3			1		10
198	WNV Neurological Syndrome																						1				1		2
008.44	YERSINIA ENTEROCOLITICA	1																	1										2
		11	8	14	22	14	12	6	11	14	12	18	5	10	18	24	26	29	44	19	41	21	17	28	34	49	25		532

SUMMARY OF COMMUNICABLE DISEASE BY REGION (RHA) FOR October 2008

ICD9	Disease/Infection	Winnipeg	Brandon	N.Eastman		S.Eastman		Interlake		Central		Assiniboine		Parkland		Norman		Burntwood		Churchill	OOP	Missing	TOTAL
*Case Referred to:**				*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*	*F*	*P*				
006.9	AMEBIASIS	2																					2
038.0	BETA STREP SEPTICEMIA	8	1		1								2				1	1	1				15
116.0	BLASTOMYCOSIS	4																	1		1		6
008.43	CAMPYLOBACTER	7	1	1	4		3				3		3		1		2						25
558.2	CLOSTRIDIUM DIFFICILE	59	2		1		2		10		2		5		2								83
007.8	CRYPTOSPORIDIOSIS	1									1		4				4		1				11
008.0	E. COLI 0157	1															1	1					3
007.1	GIARDIA LAMBLIA	4	1		1		1																7
041.59	HAEM. INFLUENZAE (non-B)	1																1	1				3
070.1	HEPATITIS A	2																					2
070.51	HEPATITIS C	10	1		1		1		4						2				1				20
084	MALARIA	1																					1
B95.6	MRSA	92	6	2	4		6		8		6		7		9	1	14	75	40	1	1	1	273
728.86	NECROTIZING FASCIITIS	2																1					3
038.2	PNEUM. SEPTICEMIA	3					1		2						1			3	3				13
003.0	SALMONELLA	13	2		1			1	1		4								1	1			24
004	SHIGELLOSIS	1									1						3						5
041.1	STREP PYOGENES - OTHER ST	5									1							1	1				8
013	TUBERCULOSIS-NON-RESP	2																					2
010	TUBERCULOSIS-PRIM	1																					1
011	TUBERCULOSIS-RESP	6	1															3	1				11
B96.8	VANCOMYCIN RES. ENTER.	1					1		1		3		1		1		2						10
198	WNV Neurological Syndrome								1				1										2
008.44	YERSINIA ENTEROCOLITICA						1				1												2
		226	**15**	**3**	**13**		**16**	**1**	**27**		**22**		**23**		**16**	**1**	**27**	**86**	**51**	**2**	**2**	**1**	**532**

* F=Federal Jurisdiction (First Nations and Inuit Health) P=Provincial Jurisdiction

STD Infection Summary Report - October 2008

	MONTHLY TOTAL		YEAR-TO-DATE	
DISEASE/INFECTION	**2007**	**2008**	**2007**	**2008**
All Chlamydia Infections	672	654	4480	5879
All Gonorrhea Infections (including PRNG)	147	105	1237	1197
All Syphilis Infections	3	10	40	55
Gonorrhea & Chlamydia Co-infections	60	50	493	534
HIV	9	5	67	80

Total Number of STD Cases by Age and Gender - October 2008

	<1		1 - 4		5 - 9		10 - 14		15 - 19		20 - 24		25 - 29		30 - 39		40 - 49		50 - 59		60 - 69		70 - 79		80 +		Missing	Total
Disease Name	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**F**	**M**	**age/gendr**	
Chlamydia Only Cases							4	4	156	53	116	67	72	44	35	32	11	5	1	1	3							604
Gonorrhea Only Cases					1				7	4	10	7	4	4	4	9	3		1							1		55
Syphilis Only Cases									1			2				2	1	1	1				1	1				10
GC and CT Cases							1		14	7	6	6	4	6	4	2												50
					1		5	4	178	64	132	82	80	54	43	45	15	6	3	1	3		1	1		1		719
HIV												1				3		1										5

Regional STD Distribution - October 2008

Disease/Infection	**Winnipeg**	**Brandon**	**N.Eastman**		**S.Eastman**		**Interlake**		**Central**		**Assiniboine**		**Parkland**		**Norman**		**Burntwood**		**Churchill**	**OOP**	**Missing**	**TOTAL**
Case Referred to:*			***F***	***P***	***F***	***P***	***F***	***P***	***F***	***P***	***F***	***P***	***F***	***P***	***F***	***P***	***F***	***P***				
All Chlamydia Infections	333	39	9	15		9	9	36		28		16	5	29	3	25	64	29		5		654
All Gonorrhea Infections	48	4	11	1				2		4				4	3	3	18	6		1		105
All Syphilis Infections	8					1														1		10
GC and CT Infections	20	2	1	1				2		4				3	2	1	9	4		1		50

* F=Federal Jurisdiction (includes First Nations and Inuit Health) P=Provincial Jurisdiction